From the INTERNATIONAL SEARCHING AUTHORITY

To: NOVO NORDISK Figurence Corporate Patents	Country
Novo Allé Agent DK-2880 Bagsvaerd 2 2. JUL. 2004 DENMARK	Short title
Action Term	

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

DK-2880 Bagsvaerd 22.JUL.					
	erm				
		(PCT Rule 44.1)			
	Date of mailing (day/month/year)	22/07/2004			
Applicant's or agent's file reference					
6624.204-wo	FOR FURTHER A	ACTION See paragraphs 1 and 4 below			
International application No.	International filing d	late			
PCT/DK2004/000183	(day/month/year)	18/03/2004			
Applicant					
Authority have been established and Filling of amendments and statem The applicant is entitled, if he so wis	ent under Article 19: hes, to amend the claims of the International	Application (see Rule 46)			
	ich amendments is normally 2 months from t bort; however, for more details, see the notes				
1211 Gen	nal Bureau ot WIPO, 34 chemin des Colombe eva 20, Switzerland, Fascimile No.: (41-22) e the notes on the accompanying sheet.				
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith.					
3. With regard to the protest against	payment of (an) additional fee(s) under Rule	40.2, the applicant is nolitied that:			
applicant's request to forward t	cision thereon has been transmitted to the in he texts of both the protest and the decision is on the protest; the applicant will be notified.	thereon to the designated Offices.			

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau, If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bs. 1 and 90 bs. 3, respectively. before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written goinlon of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filled it the applicant wishes to postpone the entry into the national phase until 30 months. from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Ottices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits. Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl,

Authorized officer

Geertruida Groeneveld-Van der Spel

_ Fax: (+31-70) 340-3016

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filting of amendments under article 19. The Notes are based on the requirements of the Peter Cooperation Treatly, the Regulations and the Administrative Instruction under that Treaty in case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guides, a pubblication of WPO.

in these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application it should however be emphasized that, since all parts of the international application (claims, description and deswings) may be amended during the international pretentinesy examination procedure, there is usually no need to file amendments of the forms under Article 19 except where, or git is applicant what the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication Full-fermions, it should be emphasized that provisional forestions are validable in some States.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended,

During the international phase, the claims may elso be amended (or further amended) under Article 34 before the International Preliminary Examiring Authority. The description and drawings may only be amended under Article 34 before the International Examiring Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmitted of the informational search report or 15 months from the priority date, whichever time limit exprise later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the exprization of the appricable time limit but before the completion of the technical preparations for international publication (Rules 64 1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been fis filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the lext of one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed

All the claims appearing on a reptacement sheet must be numbered in Arabic numera's. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as smended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged,
- (ii) the claim is cancelled,
- (vi) the claim is new
- (iv) the claim replaces one or more claims as filed:
- (v) the claim is the result of the division of a claim as filed

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1 [Where originally there were 48 claims and after amendment of some claims there are 51]. "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2 [Where originally there were 15 claims and after emendment of all claims there are 11]: *Claims 1 to 15 replaced by amended claims 1 to 11 *
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding
- new claims!:
 "Claims 1 to 6 and 14 unchanged, claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or
 "Claims 7 to 13 cancelled, new claims 15, 16 and 17 added; all other claims unchanged."
- [Mhere vanous kinds of amendments are made]
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled, claims 14, 15 and 16 replaced by amended
 claim 14; claim 17 subdivided into amended claims 15, 15 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English

It should not be confused with and does not replace the letter indicating the differences between the claims as lifed and as amended. It must be filled on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)".

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of thing the amendments with the international Bureau, also file a copy of such amendments with the international Preliminary Examining Authority (see Rulle 62 (26), first sortenous)

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Gurda

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's tile reference	FOR FURTHER ACTION	see Form PCT as well as, where applica					
International application No.	International filing date (day/mont	v/year) (Earliest) Priori	ty Date (day/month/year)				
PCT/DK2004/000183 18/03/2004 18/03/2003							
Applicant NOVO NORDISK A/S							
This international Search Report has bee according to Article 18. A copy is being to This international Search Report consists X It is also accompanied by	ransmitted to the International Burea	ı. eels.	mitted to the applicant				
language in which it was filed, ur The internationa	international search was carried out	em.					
this Authority (Ai	ule 23.1(b)). cotide and/or amino acid sequence	disclosed in the international	al application, see Box No. I.				
2. Certain claims were for	and unsearchable (See Box II).						
3. Unity of invention is lac	oking (see Box III).						
4 With regard to the little, the text is approved as submitted by the applicant. It is the text has been established by this Authority to read as follows: METHOD FOR THE PRODUCTION OF GLA-RESIDUE CONTAINING SERINE PROTE							
the text has been estable	ubmitted by the applicant. shed, according to Rule 38.2(b), by t om the date of mailing of this interna	nis Authority as it appears in Jonal search report, submit	Box No. IV The applicant comments to this Authority				
With regards to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. as suggested by the applicant. as selected by the Authority, because the applicant faked to suggest a figure. as selected by the Suthority, because this figure better characterizes the invention. b. in one of the figures is to be published with the abstract.							

Form PCT/ISA/210 (tirst sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No PCT/DK2004/000183

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N9/64 A61K38/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the lields searched

Electronic data base consulted during the international search (name of data base and, where practical, search ferms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate of the relevant passages	Relevant to claim No
X	KLAUSEN N K ET AL: "Analysis of the glycoforms of human recombinant factor VII a by capillary electrophoresis and high-performance liquid chromatography" JOURNAL OF CHROMATOGRAPHY A, ELSEVIER SCIENCE, NL, vol. 718, no. 1, 1 December 1995 (1995-12-01), pages 195-202, XP004038516 ISSN: 0021-9673 page 197 - page 198; figure 1	1-83
	-/	

Type Further documents are listed in the continuation of box C	Patent tamily members are listed in annex
Special categories of cited documents 'A' document detining the general state of the art which is not considered to be of particular relevance. 'C' earlier document but published on or after the international irring date. 'L' document which may have stated on promby damage or claim or after the international or claim or or other decision or other special reason of as specified on other citation or other special reason of as specified or other claim or or other decision or other decision. 'C' document referring to an oral disclosure, use, exhibition or other means. 'P' document published prior to the international I ling date but later than the promy date claim.	11° baler document published after the international rising date or protey date and not notified with the application but no protey date and not notified with the application but detected the protection of the consistence of the protection of the consistence of notified to another to another of another or another of another or another of protection of the protection of the protection of protection elevation. The consistence of the consistence of protection of protection of the consistence of the consistence of the protection of the consistency of the protection of
Date of the actual completion of the international search 30 June 2004	Date of mailing of the international search report 22/07/2004
Name and making address of the ISA European Patent Office, P B :5818 Patentian 2 NL - 2209 HP [Riswijk Tel (-)1-70) 304-2046. Tx 31 651 epo nt, Fax (-)1-70 304-2016	Authorized officer Schmidt, Harald

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INTERNATIONAL SEARCH REPORT

International Application No PCT/DK2004/000183

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No
alegory *	Citation of document with indication, where appropriate, of the relevant passages	Helevani to claim No
x	TOMOKIYO K ET AL.: "Large-scale production and properties of human plasma-derived activated Factor VII concentrate" VOX SANGUINIS, vol. 84, no. 1, January 2003 (2003-01), pages 54-64, XF002286502 page 56 - page 57	44-83
X	EP 0 770 625 A (BEHRINGWERKE AG) 2 May 1997 (1997-05-02) column 1, line 41 - column 3, line 54; claim 3	1-83
X	US 5 700 914 A (JORGENSEN TONY ET AL) 23 December 1997 (1997-12-23) cited in the application column 1, line 31 - line 36; examples 1-4	1-83
X	EP 0 547 932 A (AQUITAINE DEV TRANSF SANGUINE) 23 June 1993 (1993-06-23) claims 1,8,9; example 1	24-83
X	EP 0 765 669 A (IMMUNO AG) 2 April 1997 (1997-04-02) examples 2,3,5	24-83
P,O, X	KRARUP JC & HANSEN TB: "Studies on coagulation factor VIIa autoproteolysis and formation of degradation products" ABSTRACTS OF PAPERS AMERICAN CHEMICAL SOCIETY 2003, vol. 225, no. 1-2, 23 March 2003 (2003-03-23), page BIOT333, XP008032287 abstract	1-83
P,X	WO 03/092731 A (NOVO NORDISK AS) 13 November 2003 (2003-11-13) page 12, line 3 - page 13, line 2; claims 5,31,35,38	44-83

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-43

methods for production of a purified GLA-residue containing serine protease $% \left(1\right) =\left\{ 1\right\} =\left\{ 1\right\}$

2. claims: 44-83

method for stabilizing a GLA-residue containing serine protease and composition comprising a GLA-residue containing serine protease

International application No. PCT/DK2004/000183

INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos because they relate to subject matter not required to be searched by this Authority, namely
2	Claims Nos.: because they relate to parts of the infernational Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3 🗌	Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of Item 3 of Iirst sheet)
This inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required adductial search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/DK2004/000183

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0770625	Α	02-05-1997	DE	19538715	A1	30-04-1997
			ĀT	221085		15-08-2002
			AU	706057		10-06-1999
			AU	7022696		24-04-1997
			CA	2188093		19-04-1997
			DE	59609474		29-08-2002
			EP	0770625		02-05-1997
			ËS	2180680		16-02-2003
			JP	9165397		24-06-1997
			US	2001007901		12-07-2001
				2001007901		
US 5700914	Α	23-12-1997	AU	677309		17-04-1997
			AU	6423994		24-10-1994
			CA	2159313		13-10-1994
			CN		A,B	01-05-1996
			CZ	9502533		17-01-1996
			WO	9422905	A1	13-10-1994
			EP	0691984	A1	17-01-1996
			FΙ	954649		29-09-1995
			HU	72712	A2	28-05-1996
			JP	8508264	T	03-09-1996
			NO	953883	A	28-11-1995
			PL	310887	A1	08-01-1996
			ZA	9401956	A	30-09-1994
EP 0547932	Α	23-06-1993	FR	2684999	 A1	18-06-1993
			AT	142255	Т	15-09-1996
			DE	69213421	Ď1	10-10-1996
			DE	69213421		03-04-1997
			DE	547932	T1	03-02-1994
			DK	547932		10-02-1997
			ĒΡ		A1	23-06-1993
			ĒS		Τî	16-10-1994
			GR		ΪÎ	30-09-1993
			GR	3021875		31-03-1997
			JP	2533050		11-09-1996
			JΡ		A A	27-12-1993
			US	5344918		06-09-1994
				3344910	~ 	
EP 0765669	Α	02-04-1997	DE	19531637		06-03-1997
			CA	2184226		01-03-1997
			EP	0765669		02-04-1997
			JP	9110715	A	28-04-1997
			NO	963568	Α	03-03-1997
			US	5891843	A	06-04-1999
			US	6013620		11-01-2000
WO 03092731	Α	13-11-2003	WO	03092731	A1	13-11-2003
WU U3U9Z/31			US	2004009918	A1	15-01-2004

PATENT COOPERATION TREATY

To.				PCT				
	see form	PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 <i>bis</i> .1)				
				Date of mailing (day.month/year) se	ee form PCT//SA/210 (second sheet)			
	licant's or agent's file form PGT/ISA/22			FOR FURTHER ACTION See paragraph 2 below				
	national application I T/DK2004/00018		International filing date ((day.monthyear)	Priority date (day/month/year) 18.03.2003			
	VO NORDISK A	8						
1.	This opinion co	This opinion contains indications relating to the following items:						
	⊠ Box No I	Basis of the or	pinion					
	☑ Box No II	Priority						
	☐ Box No III	Non-establishi	ment of opinion with reg	ard to novelty, inventi-	ve step and industrial applicability			
	□ Box No. IV	Lack of unity of	of invention					
	Box No. V			bis 1(a)(i) with regard to novelty, inventive step or industrial one supporting such statement				
	Box No. VI	Certain docum	nents cited					
	☐ Box No VII	Certain defect	s in the international ap	plication				
	Box No VIII	Certain observ	vations on the internatio	nal application				
2.	FURTHER ACTI	CTION						
	written opinion of the applicant cho	f the Internation ooses an Author eau under Rule	al Preliminary Examinin	ng Authority ("IPEA") i o be the IPEA and the	Il usually be considered to be a However, this does not apply where chosen I PEA has notifed the ational Searching Authority			
	submit to the IPE	A a written rep date of mailing	ly together, where appro	priate, with amendme	IPEA, the applicant is invited to ents, before the expiration of three of 22 months from the priority date,			

Name and mailing address of the ISA



European Patent Office - P B 5818 Patentlaan 2 NL-2280 HV Rijswyk - Pays Bas: Tel +31 70 340 - 2040 Tx 31 651 epo nl Fax +31 70 340 - 3016

For further options, see Form PCT/ISA/220

3. For further details, see notes to Form PCT/ISA/220.

Authorized Officer

Schmidt, Harald

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/DK2004/000183

	Box	No. I Basis of the opinion					
1	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item						
	- 1	This opinion has been established on the basis of a translation from the original language into the following arguage , which is the language of a translation furnished for the purposes of international search under Fulse 12.3 and 23.100.					
2.	With nece	regard to any nucleotide andor amino acid sequence disclosed in the international application and ssary to the claimed invention, this opinion has been established on the basis of:					
	a. typ	e of material:					
		a sequence listing					
		table(s) related to the sequence listing					
	b. format of material:						
		in written format					
		in computer readable form					
	c. tım	e of filingfurnishing:					
		contained in the international application as filed.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	ŀ	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional oppies is identical to that in the application as filed or does not go beyond the application as filed, as porporprate, were furnished.					

4. Additional comments:

_	Box No. II Priority						
1.	☐ The following document has not been furnished:						
	□ copy of the earlier application whose priority has been claimed (Rule 43bis 1 and 66 7(a)).						
	translation of the ear	lier app	lication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b))			
				der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date			
2		s 43bis	.1 and 64.1	nty had been claimed due to the fact that the priority claim. Thus for the purposes of this opinion, the international the relevant date.			
3.	Additional observations, if necess	ary:					
_							
	Box No. V Reasoned stateme industrial applicability; citation			bis.1(a)(I) with regard to novelty, inventive step or ns supporting such statement			
1.	Statement						
	Novelty (N)	Yes: No:	Claims	1-83			
		MO.	Ciains	1-00			
	Inventive step (IS)		Claims				
		No:	Claims	1-83			
	Industrial applicability (IA)	Yes:	Claims	1-83			
		No.	Claims				
2	Citations and explanations						
۷.	·						
	see separate sheet						
_	Box No. VI Certain document	e cited					
_				240			
١.	. Certain published documents (Rules 43bis.1 and 70.10)						
0	and / or		170.0				
2.	Non-written disclosures (Rules 43	BDIS.1 a	na 70.9)				
	see form 210						
_							
_	Box No. VIII Certain observat	ions or	the interr	national application			

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1; Klausen NK & Kornfelt T (1995) Journal of Chromatography A, 718:195-202

D2: Tomokiyo K et al. (2003) Vox Sanguinis 84: 54-64

D3: EP 0 770 625

D4: US 5 700 914 D5: EP 0 547 932

D6: EP 0 765 669

Novelty

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claims 1,24,44 and 64 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document) a method for purification of recombinant factor VIIa wherein said GLA-residue containing serine protease is purified using capillary electrophoresis at pH 4.8 or, alternatively, at pH 9.0.

Further disclosed is a preparation of factor VIIa in a solution with a pH of 4.8 or 9.0 (see page 197, right-hand column to page 198, left-hand column, and figure 1). Therefore, subject-matter of independent claims 1,24,44 and 64 does not meet the requirements of Article 33(2) PCT.

The document D2 discloses a preparation of human plasma-derived factor VIIa in a buffer having pH 6.9 (see page 57, left-hand column).

Therefore, subject-matter of independent claims 44 and 64 does not meet the requirements of Article 33(2) PCT.

The document D3 discloses a process for purification of recombinant factor VII/VIIa, wherein said proteins are eluted at pH 6.5 from a Sepharose column. Further disclosed is a preparation of factor VIIa in a solution with a pH of 6.5 (see Example).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

Therefore, subject-matter of independent claims 1.24,44 and 64 does not meet the requirements of Article 33(2) PCT.

The document D4 discloses a process for purification of recombinant factor VII/VIIa, wherein said proteins are eluted at pH 8.6 from a Q-Sepharose column. Further disclosed is a preparation of factor VIIa in a solution with a pH of 8.6 (see Examples 1 to 4).

Therefore, subject-matter of independent claims 1,24,44 and 64 does not meet the requirements of Article 33(2) PCT.

The document D5 discloses a process for purification of human plasma-derived factor VII/VIIa, wherein said proteins are eluted at pH 6 from a Q-Sepharose column. It is also mentioned that the Sepharose column is equilibrated using a buffer having pH 6. Further disclosed is a preparation of factor VIIa in a solution with a pH of 6 (see Example 1 and claims 8 and 9).

Therefore, subject-matter of independent claims 24,44 and 64 does not meet the requirements of Article 33(2) PCT.

The document D6 discloses a process for purification of human plasma-derived factor VII/VIIa, wherein said proteins are eluted at pH 8.6 from a Q-Sepharose column. Further disclosed is a preparation of factor VIIa in a solution with a pH of 8.6 (see Examples 2.3 and 5).

Therefore, subject-matter of independent claims 24,44 and 64 does not meet the requirements of Article 33(2) PCT.

Dependent claims 1 to 23,25-43,45-63 and 65-83 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 to D6 and the corresponding passages cited in the search report.

Industrial applicability

Subject-matter of claims 1 to 83 meets the requirements of Article 33(4) PCT.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/DK2004/000183

Re Item VI Certain documents cited

Certain published documents

Application No Publication date
Patent No (day/month/year)

Filing date (day/month/year) Priority date (valid claim) (day/month-year)

WO 03/092731

13/11/2003

02/05/2003

03/05/2002

Non-written disclosures

Date of non-written disclosure

Date of written disclosure referring to non-written disclosure (day/month/year)

Kind of non-written disclosure

(day/month/year)

meeting abstract

(Krarup & Hansen) 23/03/2003 - 27/03/2003

Re Item VIII

Certain observations on the international application

It is unclear in the sense of Article 6 PCT what is meant with a free calcium ion concentration lower than 0.00 (see claims 5,28,48,68).

Furthermore, a concentration unit should be indicated in said claims in order to comply with Article 6 PCT.

The relative term "about" used in claims 12, 14,35,37,55,57,75 and 77 has no wellrecognised meaning and leaves the reader in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claims unclear. Article 6 PCT.

Although claims 1 and 24 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No PCT/DK2004/000183

It is unclear in the sense of Article 6 PCT which divalent cation is meant with " 10^{24} " (see claims 7,30,50 and 70).